Motor Reference Guide

Automotive

PASSENGER COMFORT

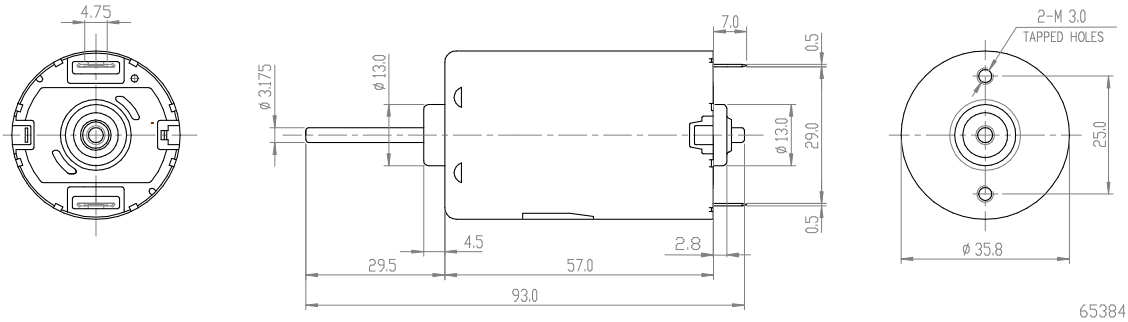
CATEGORY: PASSENGER COMFORT | APPLICATION TYPE: LUMBAR SUPPORT | SERIES NO.: HC685L

Lumbar Support

Description HC685L

The flexibility of this motor make it ideal for a wide range of applications. Various shaft configurations, EMI suppression and thermal protection options are also available.

Drawing

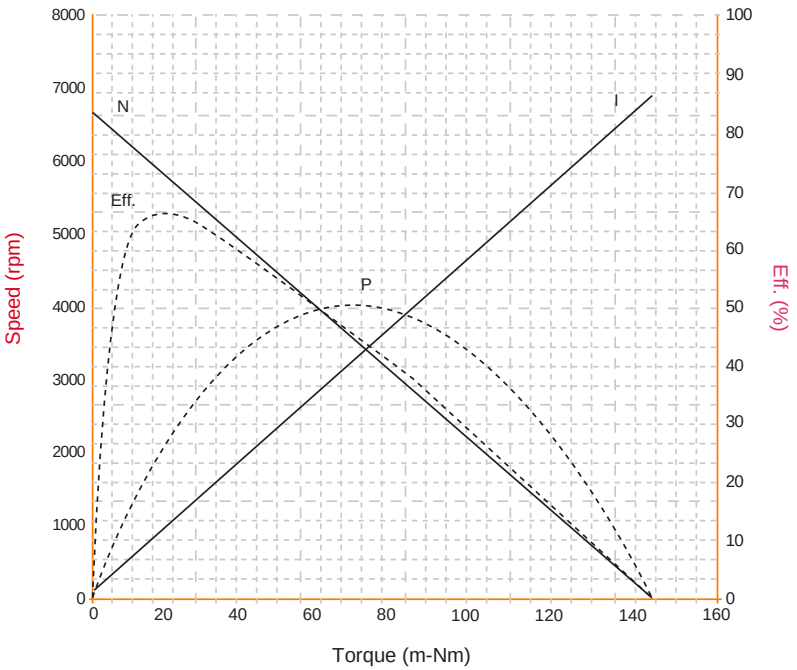


Unit in Millimetres

Performance data

Model : HC685L - A28/1

Full Scale : 50 Amp 50 Watts



Test Conditions

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of	13.00	Volts
With a circuit resistance	0.000	Ohm
Ambient temperature	25~30	deg C
At No Load		
Speed	6720	Rpm
Current	0.310	Amp
At stall (Extrapolated)		
Torque	144.80	m-Nm
Current	8.59	Amp
At maximum efficiency		
Efficiency	64.39	%
Torque	23.17	m-Nm
Speed	5645	Rpm
Current	1.64	Amp
Output	13.69	Watts
At maximum power		
Torque	72.40	m-Nm
Speed	3360	Rpm
Current	4.45	Amp
Output	25.46	Watts
Characteristics		
Torque Constant :	17.4860	m-Nm/Amp
Dy. Resistance :	1.5130	Ohms
Motor Regulation:	46.4100	Rpm/m-Nm

JOHNSON ELECTRIC 6-22 Dai Shun Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong
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www.johnsonmotor.com

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JOHNSON ELECTRIC

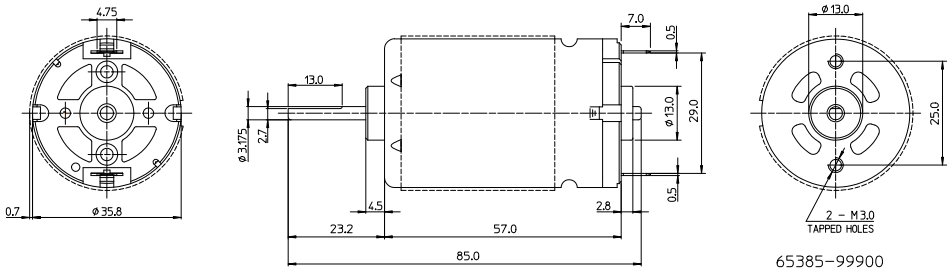
CATEGORY PASSENGER COMFORT | APPLICATION TYPE LUMBAR SUPPORT | SERIES NO. HC615L

Lumbar Support

Description HC615L

This is a standard lumbar support motor with a plastic endcap. Diferrent overload protection and shaft configurations are available as non standard options. Non-standard options may affect the dimensions and performance of the motor. Please contact Johnson Electric for more details.

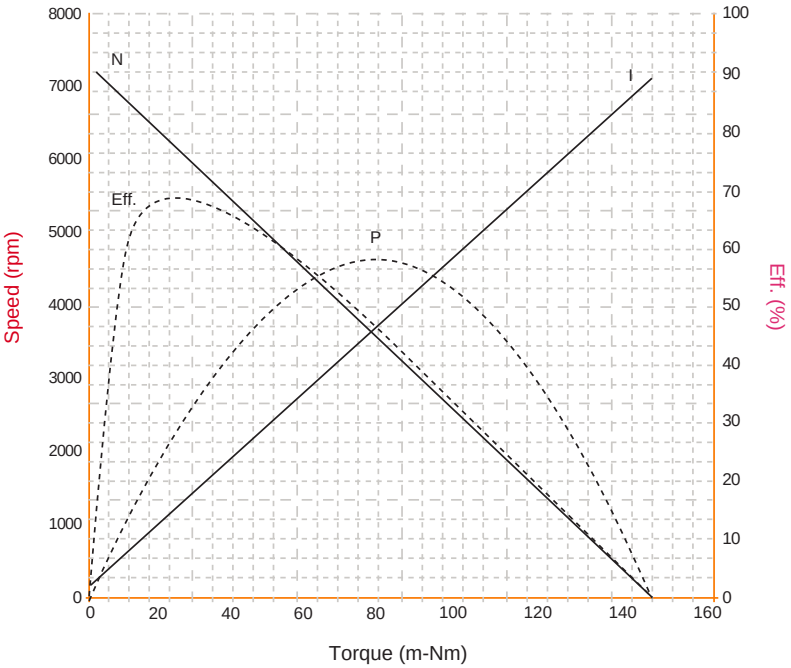
Drawing



Unit in Millimetres

Performance data

Model : HC615L - A28/2
Full Scale : 10 Amp 50 Watts



Test Conditions

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of	13.00	Volts
With a circuit resistance	0.000	Ohm
Ambient temperature	25~30	deg C
At No Load		
Speed	7153	Rpm
Current	0.285	Amp
At stall (Extrapolated)		
Torque	147.75	m-Nm
Current	8.96	Amp
At maximum efficiency		
Efficiency	68.41	%
Torque	22.16	m-Nm
Speed	6080	Rpm
Current	1.59	Amp
Output	14.10	Watts
At maximum power		
Torque	73.87	m-Nm
Speed	3577	Rpm
Current	4.62	Amp
Output	27.65	Watts
Characteristics		
Torque Constant :	17.0400	m-Nm/Amp
Dy. Resistance :	1.4520	Ohms
Motor Regulation:	48.4140 `	Rpm/m-Nm

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PASSENGER COMFORT

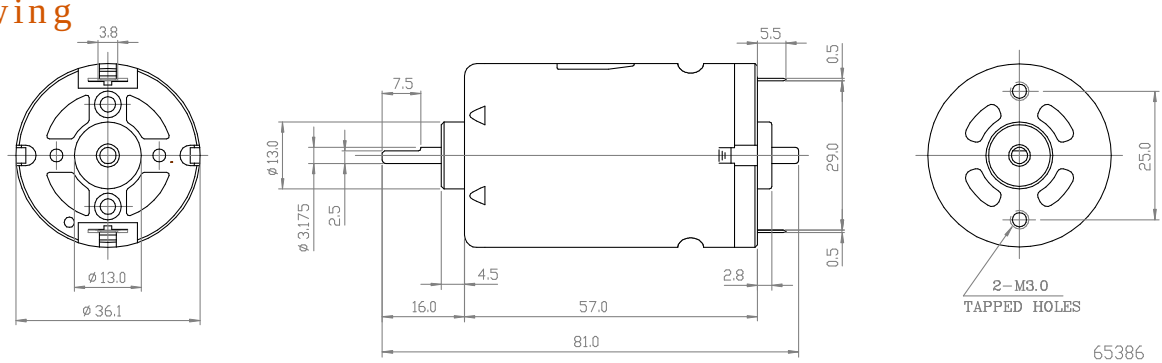
CATEGORY: PASSENGER COMFORT | APPLICATION TYPE: LUMBAR SUPPORT | SERIES NO.: HC615L

Lumbar Support

Description HC615L

The flexibility of this motor make it ideal for a wide range of applications. Various shaft configurations, EMI suppression and thermal protection options are also available.

Drawing

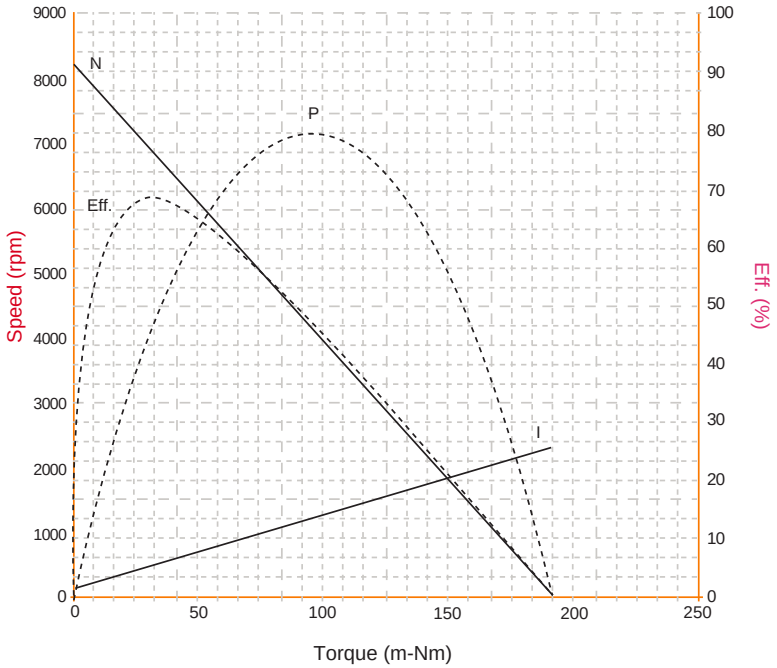


Unit in Millimetres

Performance data

Model : HC615L - A28/3

Full Scale : 50 Amp 50 Watts



Test Conditions

Motor tested rapidly to prevent significant temperature rise.

At a constant voltage of	13.00	Volts
With a circuit resistance	0.000	Ohm
Ambient temperature	25~30	deg C
At No Load		
Speed	8072	Rpm
Current	0.380	Amp
At stall (Extrapolated)		
Torque	191.00	m-Nm
Current	13.18	Amp
At maximum efficiency		
Efficiency	68.79	%
Torque	28.65	m-Nm
Speed	6861	Rpm
Current	2.30	Amp
Output	20.57	Watts
At maximum power		
Torque	95.50	m-Nm
Speed	4036	Rpm
Current	6.78	Amp
Output	40.34	Watts
Characteristics		
Torque Constant :	14.9180	m-Nm/Amp
Dy. Resistance :	0.9860	Ohms
Motor Regulation:	42.2620	Rpm/m-Nm

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